

**Notice of Allowability**

Application No.

10/712,415

Examiner

Allen C. Ho

Applicant(s)

MARIO ET AL.

Art Unit

2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 07 April 2006.
2. ☒ The allowed claim(s) is/are 1-5, 7-13 and 18-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. Claims 1-5, 7-13, and 18-27 are allowed.
2. The following is an examiner's statement of reasons for allowance:

With regard to claims 1-5, 7-13, and 21-26, although the prior discloses a scanning x-ray inspection system comprising a conveyor having a belt, an x-ray generation device, a fast backscatter detector disposed on the same side of the moving object as the x-ray generation device, the fast backscatter detector comprising two elongated sections, each of the sections being oppositely disposed along the straight line, and a transmission detector positioned on the opposite side of the object as the backscatter detector, the prior art fails to teach or fairly suggest that the fast backscatter detector comprises two elongated scintillator sections optically linked to at least one photon detector as claimed.

With regard to claims 18-20, although the prior art discloses a method for x-ray inspection of an object using transmitted and Compton backscattered radiation comprising the step of providing an x-ray source, a conveyor having a belt, a fast transmission detector, and a fast backscatter detector, the x-ray source and the fast backscatter detector being disposed on one side of the belt, and the transmission detector being disposed on the other side of the belt, the prior art fails to teach or fairly suggest that the fast backscatter detector comprises two elongated scintillator sections optically linked to at least one photon detector as claimed.

With regard to claim 27, although the prior art discloses a scanning x-ray inspection system comprising a conveyor having a belt, an x-ray generation device, a fast backscatter

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detector comprising a scintillator having a short persistence phosphor and at least one photon detector and being disposed on the same side of the moving object as the x-ray generation device, the backscatter detector comprising two elongated sections, each of the sections being oppositely disposed along the straight line, and a transmission detector comprising a scintillator having a short persistent phosphor and at least one photon detector and being positioned on the opposite side of the object as the backscatter detector, the prior art fails to teach or fairly suggest that the backscatter detector comprises two elongated scintillator sections optically linked to at least one photon detector as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Response to Arguments***

3. Applicant's arguments filed 07 April 2006 with respect to claims 1, 18, and 27 have been fully considered and are persuasive. The objections of claims 1, 18, and 27 have been withdrawn.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

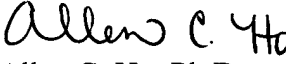
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Annis (U. S. Patent No. 5,493,596) disclosed a scanning x-ray inspection system that comprises a transmission detector (50) comprising two elongated scintillator sections (52) optically linked to at least one photon detector (54).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Allen C. Ho, Ph.D.  
Primary Examiner  
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24 April 2006